

SEATTLE CITY LIGHT  
**MATERIAL STANDARD**

STANDARD NUMBER: **5082.0**  
PAGE: 1 of 2  
DATE: July 15, 1987  
REV: September 4, 2001

**POLES, PRESSURE-TREATED, DOUGLAS FIR**

**1. SCOPE**

This specification governs conditions of purchase and delivery f.o.b. receiving points designated on requests for bids, pressure-treated Douglas Fir poles as defined herein, for electrical distribution purposes.

**2. APPLICABLE SPECIFICATIONS**

Poles shall be furnished in accordance with applicable provisions of the latest revisions of the following publications, except as they are modified by this specification.


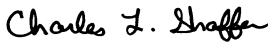

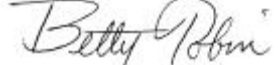
- 2.1 American National Standards Institute (ANSI) Standard 05.1, "Wood Poles, Specifications and Dimensions."
- 2.2 American Wood-Preservers' Association (AWPA) Standard C1, "All Timber Products — Preservative Treatment by Pressure Processes."
- 2.3 AWPA Standard C4, "Poles — Preservative Treatment by Pressure Processes."
- 2.4 AWPA P8, "Standard for Oil-Borne Preservatives."
- 2.5 AWPA P9, "Standards for Solvents and Formulations for Organic Preservative Systems."

**3. MATERIAL REQUIREMENTS**

- 3.1 *Timber.* Poles shall be Pacific Coast Douglas Fir cut from live timber and shall conform to the requirements of ANSI 05.1.
- 3.2 *Preservative.* Preservative shall be copper naphthenate conforming to the requirements of AWPA P8.
- 3.3 *Solvent.* Solvent for copper naphthenate shall be a heavy petroleum conforming to the requirements of AWPA P9.

**4. MANUFACTURING REQUIREMENTS**

- 4.1 *Dimensions.* Finished dimensions of the various classes of poles shall conform to the requirements of ANSI 05.1.
- 4.2 *Shaving.* Poles shall be machine shaved full length, and shall be free from "barber pole" and "wheel gouging" depressions.
- 4.3 *Incising.* Poles shall be incised full-length after shaving but before seasoning. Minimum incising depth shall be 1/2 inch, except the pole butt area (first 10 feet of pole) shall be incised "deep," 2-1/2 inches.
- 4.4 *Checks.* No check exceeding 3/8 inch is permitted. Adjacent maximum acceptable checks closer than 3/4 inch are not permitted.
- 4.5 *Roofing.* Poles shall be flat-roofed.
- 4.6 *Framing.* Poles shall be framed before treatment with a 1/2-inch by 2-inch high setting gain on the pole face 12 feet from the pole butt.
- 4.7 *Branding.* Poles shall be branded by burning on the pole face, as specified by ANSI 05.1, 12 feet, 6 inches above the pole butt. Metal marking tags will not be accepted.

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- 4.8 *Treatment.* Poles shall be full-length pressure-treated in accordance with AWPAs and AWPAs C4. Net retention of copper naphthenate preservative in poles after treatment shall be not less than 0.075 pounds per cubic foot for poles 30 to 40 feet in length, and 0.095 pounds per cubic foot for poles 50 to 110 feet in length.
- 4.9 *Penetration.* The depth of preservative penetration shall be not less than 3/4 inches, as determined by boring as specified under AWPAs C4.
- 4.10 *Cleanliness.* The side surfaces of all treated poles shall be and remain clean and dry.

## **5. INSPECTION**

- 5.1 All poles shall be subject to inspection at the point of manufacture and at the point of delivery, by the City Light Quality Assurance, or its representative, and the supplier shall facilitate the inspection by all reasonable means. Inspection shall be for the purposes of determining compliance with the terms of the specification.
- 5.2 Inspection may extend to all materials and processes, and shall be in accordance with procedures specified by the City Light Quality Assurance, and procedures given by the reference specifications adopted herein.
- 5.3 Inspection and acceptance at the point of manufacture shall not relieve the supplier from obligation to furnish material in accordance with this specification.

## **6. DELIVERY**

Poles shall be delivered by truck. Trucks shall have "self loading" capability.

## **7. REJECTION**

- 7.1 Poles not conforming to the specification and poles received damaged or broken, will be rejected. The supplier shall dispose of rejected poles at his own expense.
- 7.2 The City of Seattle reserves the right to bill the supplier for the cost to the City of handling poles rejected at the point of delivery.

## **8. CERTIFICATION**

Each shipment of poles shall be accompanied by a statement signed by the supplier, certifying to compliance with this specification.

## **9. CANCELLATION OF CONTRACT**

The City of Seattle may cancel contracts with suppliers who fail to comply with the terms of this specification.

## **10. SUPPLEMENTARY INSTRUCTIONS**

Complete detailed instructions will be given the supplier in all cases where this specification is to be extended to meet special requirements.

**Reference Specifications:** ANSI 05.1.

AWPA C1, C4, P8, P9, latest revisions.